

Product datasheet for TR500102

OriGene Technologies, Inc.

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Prdx6 Mouse shRNA Plasmid (Locus ID 11758)

Product data:

Product Type: shRNA Plasmids

Product Name: Prdx6 Mouse shRNA Plasmid (Locus ID 11758)

Locus ID: 11758

Synonyms: 1-cys; 1-Cys Prx; 1-cysPrx; 9430088D19Rik; a; AA690119; aiPLA2; Aop2; Brp-; Brp-12; CP-; CP-3;

GP; GPx; LPCAT-5; Ltw; Ltw-4; Ltw-4; Lvtw; Lvtw-4; N; NSGPx; ORF06; Prdx5

Vector: pRS (TR20003)

E. coli Selection: Ampicillin

Mammalian Cell Puromycin

Selection: Format:

Retroviral plasmids

Components: Prdx6 - Mouse, 4 unique 29mer shRNA constructs in retroviral untagged vector(Gene ID =

11758). 5µg purified plasmid DNA per construct

29-mer scrambled shRNA cassette in pRS Vector, TR30012, included for free.

RefSeq: <u>BC013489</u>, <u>BC061181</u>, <u>NM 001303408</u>, <u>NM 007453</u>, <u>NR 130150</u>, <u>NM 007453.1</u>, <u>NM 007453.2</u>,

NM 007453.3, NM 007453.4, NM 001303408.1

UniProt ID: 008709

Summary: This gene encodes a member of the peroxiredoxin family of peroxidases. The encoded

protein is a bifunctional enzyme that has glutathione peroxidase and phospholipase activities. This protein is an antioxidant that reduces peroxidized membrane phospholipids and plays an important role in phospholipid homeostasis based on its ability to generate lysophospholipid substrate for the remodeling pathway of phospholipid synthesis. Mice lacking this gene are sensitive to oxidant stress, have altered lung phospholipid metabolism and susceptible to skin tumorigenesis. Alternate splicing of this gene results in multiple transcript variants. A pseudogene of this gene is found on chromosome 4. [provided by

RefSeq, Dec 2014]

shRNA Design: These shRNA constructs were designed against multiple splice variants at this gene locus. To

be certain that your variant of interest is targeted, please contact <u>techsupport@origene.com</u>. If you need a special design or shRNA sequence, please utilize our <u>custom shRNA service</u>.





Performance Guaranteed:

OriGene guarantees that the sequences in the shRNA expression cassettes are verified to correspond to the target gene with 100% identity. One of the four constructs at minimum are guaranteed to produce 70% or more gene expression knock-down provided a minimum transfection efficiency of 80% is achieved. Western Blot data is recommended over qPCR to evaluate the silencing effect of the shRNA constructs 72 hrs post transfection. To properly assess knockdown, the gene expression level from the included scramble control vector must be used in comparison with the target-specific shRNA transfected samples.

For non-conforming shRNA, requests for replacement product must be made within ninety (90) days from the date of delivery of the shRNA kit. To arrange for a free replacement with newly designed constructs, please contact Technical Services at techsupport@origene.com. Please provide your data indicating the transfection efficiency and measurement of gene expression knockdown compared to the scrambled shRNA control (Western Blot data preferred).